

**COMPETENCY ENHANCEMENT MICROBIOLOGY TESTING OF FISH
QUARANTINE LABORATORY OFFICER AT FISH QUARANTINE
AND INSPECTION AGENCY, QUALITY CONTROL, AND SAFETY OF
FISHERY PRODUCT THROUGH EDUCATION AND TRAINING**

By:
Yahya Tri Laksana
09502247009

ABSTRACT

The pace of globalization is increasingly apparent demanding technological advances in all fields. Government officials serve as the subject of development practitioners have the required competence. One way to improve the competencies is to conduct education and training. This study aims to find out how the competency enhancement microbiology testing of fish quarantine laboratory officer at Fish Quarantine and Inspection Agency, Quality Control, and Safety of Fishery product (FQIA/BKIPM) through education and training.

This research is a type of observational study. The study population was 22 patients at appreciation of with increased appreciation of education and training competency microbiological test using RT-PCR Rotorgene and Applied biosystem step one. Instrument research is the pretest and posttest. Analysis of the data used to analyze the research data are descriptive analysis and inferential analysis using t-test for paired data.

The results showed there was an increase competence Fish Quarantine Laboratory Officer BKIPM after education and training with theoretical lectures with proportion 40% and direct practice in the laboratory with proportion 60%. The average value of pretest participants was 6.00 and the average value of posttest was 7.76. Based on the calculation of t-test showed a P value $< \alpha$ ($0.001 < 0.05$) and the value of t count $>$ t table ($3.73 > 2.093$). It can be concluded that competency increased significantly after the training session.

Keywords: observational studies, competence enhancement, descriptive and inferential data analysis